| 5 2004 | | IIS Paten | PTO/SB/21 (02-04) Approved for use through 07/31/2006. OMB 0551-0031 t and Trademark Office; U.S. DEPARTMENT OF COMMERCE |
|---|------------|---|--|
| TRADERY TO A NEMITTAL | no persons | s are required to respond to a collection Application Number | n of information unless it displays a valid OMB control number. |
| TRANSMITTAL | | Filing Date | December 5, 2003 |
| FORM | | First Named Inventor | Varadan, Vijay |
| (to be used for all correspondence after initial : | filing) | Art Unit | |
| | | Examiner Name | |
| Total Number of Pages in This Submission | 129 | Attorney Docket Number | 2002-2730 |
| | ENC | LOSURES (Check all that | apply) |
| Fee Transmittal Form Fee Attached | | Drawing(s) Licensing-related Papers | After Allowance communication to Technology Center (TC) Appeal Communication to Board of Appeals and Interferences Appeal Communication to TC |
| Amendment/Reply After Final Affidavits/declaration(s) Extension of Time Request Express Abandonment Request Information Disclosure Statement Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 | Remar | Petition Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence Addre Ferminal Disclaimer Request for Refund CD, Number of CD(s) ted References enclosed. | (Appeal Notice, Brief, Reply Brief) Proprietary Information |
| Firm or Individual name Signature SIGNA McQuaide, Blasko, Schwa | | | EY, OR AGENT |
| Date March 2, 2004 | • / | · · · · · · · · · · · · · · · · · · · | |
| | FRTIFIC | CATE OF TRANSMISSION | I/MAILING |
| | | | deposited with the United States Postal Service with |

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name

Autumn Vanatta

Signature

Date March 2, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE or the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

Sheet |1

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of 2 Atto

| Complete if Known | | | | |
|------------------------|------------------|--|--|--|
| Application Number | 10/729716 | | | |
| Filing Date | December 5, 2003 | | | |
| First Named Inventor | Varadan, Vijay | | | |
| Art Unit | | | | |
| Examiner Name | | | | |
| Attorney Docket Number | 2002 - 2730 | | | |

| | | *************************************** | U. S. PATENT | DOCUMENTS | |
|--------------------|--|---|--------------------------------|--|---|
| Examiner Initials* | Cite No.1 | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | <u> </u> | Number-Kind Code ^{2 (# known)} | | 1. | |
| | | ^{US-} 6,597,090 | 07-22-2003 | Mancevski | |
| | | ^{US-} 6,231,980 | 05-15-2001 | Cohen | |
| | | ^{US-} 6,232,706 | 05-15-2001 | Dai | |
| | | ^{US-} 6,558,645 | 05-06-2003 | Nakayama | |
| | | ^{US-} 2003/0010279 A1 | 01-16-2003 | Nakayama | |
| | | ^{US-} 6,583,085 | 06-24-2003 | Nakayama | |
| | i | ^{US-} 6,576,341 | 06-10-2003 | Davey | |
| | | ^{US-} 6,455,021 | 9-24-2003 | Saito | |
| | | US- | | | |
| | 1 | US- | | | |
| | <u> </u> | US- | | | |
| - | 1 | US- | | | |
| | | US- | | | |

| | | FORE | GN PATENT DOCU | MENTS | | |
|--------------------|--------------|---|-----------------------|--|---|----------|
| Examiner Initials* | Cite No.1 | Foreign Patent Document | Publication Date | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages | T6 |
| | | Country Code ³ Number ⁴ Kind Code ⁵ (if known) | MM-DD-YYYY | | Or Relevant Figures Appear | <u> </u> |
| - | | | | | | |
| <u> </u> | | ` . | | | | |
| | | | | | | - |
| | | | | | | - |

| Examiner | Date | |
|-----------|------------|--|
| Signature | Considered | |
| Cignatare | | |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

| BANGE TO Stitute for form 1449/PTO | | | | e required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known | | |
|------------------------------------|------------------------|-----|------------|--|------------------|--|
| - Sa osulu | te tor totti 1449/F10 | | | Application Number | 10/729716 | |
| INF | ORMATION | DIS | CLOSURE | Filing Date | December 5, 2003 | |
| STA | STATEMENT BY APPLICANT | | | First Named Inventor | Varadan, Vijay | |
| | | | | Art Unit | | |
| (Use as many sheets as necessary) | | | iecessary) | Examiner Name | | |
| Sheet | 2 | of | 2 | Attorney Docket Number | 2002-2730 | |

| | | NON PATENT LITERATURE DOCUMENTS | , |
|-----------------------|--------------|---|----------------|
| Examiner Initials* | Cite No.1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | | VARADAN, V K, "Synthesis of carbon nanocoils by microwave CVD," Smart Materials and Structures, Sept. 20, 2002, 728-734, 11, Institute of Physics Publishing. | |
| | | BIRO, L P, "Coiled carbon nanotubes structures with supraunitary nonhexagonal to hexagonal ring ratio," Physical Review, Oct. 4, 2002, 165405, 66, The American Phys. Society. | |
| | | CUNDY, C S, "The Hydrothermal Synthesis of Zeolites: History and Developement from the Earliest Days to the Present Time," Chemical Reviews, Feb. 21, 2003, 663-701, 103. | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| <u> </u> | | | |

| | | |
|-----------|------------|--|
| Examiner | Date | |
| Signature | Considered | |

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.